

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 02/01839

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C45/72 C07C49/557 B01J31/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 676 393 A (FIRMENICH & CIE) 11 October 1995 (1995-10-11) the whole document	1
A	AYYAR ET AL.: "synthesis of alpha-Damascone and beta-Damascone" J. CHEM. SOC., PERKIN TRANS. 1, vol. 17, 1975, pages 1727-1736, XP001012628 cited in the application the whole document	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

29 August 2002

Date of mailing of the international search report

16/09/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Goetz, G

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 02/01839

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	VEDEJS AND PRIBISH: "A Synthesis of the C6,C11-Dideoxyanthracyclinone Skeleton ..." J.ORG.CHEM., vol. 53, no. 8, 15 April 1988 (1988-04-15), pages 1593-1599, XP002211596 cited in the application the whole document ---	1
A	ISHIMARU ET AL.: "Novel Cationic Titanium (IV) Lewis Acids and their Use in Asymmetric Aldol Reactions" TETRAHEDRON, vol. 54, 1998, pages 727-734, XP002211597 the whole document -----	1